Date: 11/22/04

Equipment Affected: Storage Ring ACIS super door racks A thru E and Bldg. 420 Room A005 Rack #4.

Work Request Number: 16538

Requestor's Name: Roger Hogrefe

Description of specific work to be performed
Install a Chain C bypass relay in all ACIS Storage Ring racks. The Chain C bypass relay is enabled only when Zone F ACIS has test loads connected, and the appropriate test toggle in the MCR is enabled. Both Chain A and B will monitor the Chain C bypass relay to indicate when it's enabled.

Associated drawings and procedures
ACIS Drawings S_815, S_815A5. See validation procedure below.

Reason/Justification for work
To reduce manpower and time required for validations.

Validation steps to be performed after work is complete
1). Install test loads in both the Zone F and Storage Ring ACISs. Place both ACISs in test mode.
2). Force all BSS PLC inputs not to recognize a BSS trip.
3). Prop open all upstream gates and press the maze door BSS. This will trip the door/gate and BSS Chain Cs for each zone.
4), One zone at a time, enable the appropriate remote Chain C bypass test toggle. Reset Chain C for the zone being tested, by pressing the SV button on the ACIS zone being tested super door rack. Observe the Chain C bypass LED is on at the rack being tested and in the MCR.
5). Verify that Chain C is complete for the zone being tested, but is still tripped for all other zones.
6), Enable all remote Chain C bypass test toggles. Reset Chain C for each zone by pressing the SV button on the each ACIS super door rack.
7). Verify that Chain C is complete for all zones and that the Storage Ring Chain C summation is complete.
8). Connect at least one of Zone F's controlled equipment to real loads.
9). Observe all Chain Cs are tripped.
10). Reset Chain C. Observe all Chain Cs remain tripped.
11). Connect all of Zone F's controlled equipment to test loads.
12). Reset Chain C. Observe all Chain Cs are complete.
13). Disable all Chain C bypass test toggles. One zone at a time, "Force" the Chain C bypass relay feedback ON.
14). Observe the Storage Ring ACIS has tripped to a Output Relay/No Shutdown Verification fault.